

A SYSTEM AND METHOD FOR STRATEGIC POWER REDUCTION IN A
COMPUTER SYSTEM

ABSTRACT OF THE DISCLOSURE

5 A system and method are provided for strategic power
reduction in a computer system. The system and method
includes a plurality of processing resources that process
data. Associated with the processing resources are a
plurality of power supplies that provide power for the
processing resources. A resource management engine
determines the demand on the computer system and scales
the processing resources to conserve and reduce power
10 consumption. The resource management engine brings
online additional processing resources to meet additional
demand or brings offline or to a lower power state
processing resources to meet a decreased demand. In
addition, the resource management engine predicts future
15 demand requirements and adjusts the processing resources
in advance to meet the predicted demand levels and allows
for dynamic adjustment of the processing resources based
on current demand events.